

A2LA Assessor Environmental Method Checklist

Gravimetry

Item	Section 1 - Personnel	Reference	Yes-No or NA	
1.1	Does the analyst(s) interviewed meet the job description position requirements, training and qualifications for performing the test? Supervisor: _____ Technician: _____	(G25)6.1		

Item	Section 2 - Equipment & Facilities	Reference	Yes-No or NA	
2.1	Is the balance serviced annually and is a certificate of traceability with the uncertainty values of the weights available?	(SM18)1020A,1(1992)		
2.2	Is an analytical balance capable of weighing 0.1 mg available for use?	(SM18)2540B,2.f (1992)		
2.3	Is the balance calibrated before use with Class 1, 2 or 3 weights?	(SM18)1020B,5(1992)		
2.4	Are the weights traceable to national standards?	(SM18)1020B,3(1992)		
2.5	Is the drying oven temperature measured with an NIST traceable calibrated thermometer?	(SM18)2550B,1(1992)		
2.6	Is a steam bath available for use?	(SM18)2540B,2.c (1992)		
2.7	Is the dessicator equipped with an instrumental moisture detector or a color indicator dessicant?	(SM18)2540B,2.d (1992)		
2.8	Is a muffle furnace available that operates at $500 \pm 50^{\circ}\text{C}$?	(SM18)2540B,2b (1992)		

Item	Section 3 - Method	Reference	Yes-No or NA	
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Gravimetry (contd.)

3.1	Is the proper temperature for the method recorded? Total Solids 103-105°C, Total Suspended Solids 103-105°C Total Dissolved Solids 178-182°C	(SM18)2540 (1992)		
3.2	Is the evaporating dish for total and dissolved solids heat cleaned at the proper temperature for one hour prior to use?	(SM18)2540,3(1992)		
3.3	Are the dishes or filter paper stored in a desiccator until needed?	(SM18)2540B,3.a (1992)		
3.4	Is the dried residue between 10 and 200 mg for solids determinations?	(SM18)2540C,3.b (1992)		
3.5	Is the sample dried to a constant weight or until the weight change is less than 4% of the previous weight or 0.5 mg?	(SM18)2540B,1.b (1992)		
3.6	Is the filter disk prepared by washing with three successive 20 mL portions of reagent water for suspended solids?	(SM18)2540D,3.a (1992)		
3.7	Are the calculations correct for the method performed?	(SM18)2540D,4(1992)		
3.8	Is the sample volume used recorded?	(SM18)2540D,3.b (1992)		
3.9	Is the filter disk washed with at least three successive reagent water after the sample and allowed to drain between washings for suspended solids?	(SM18)2540D,3.c (1992)		

Item	Section 4 - Sample Handling Practices	Reference	Yes-No or NA	
4.1	Are the samples analyzed within 7 days for wastewater samples?	(CFR136)TableII(1/94)		
4.2	Are the samples analyzed within 7 days for drinking water total dissolved solids?	(570_1)TableIV,22 (9/92)		

Item	Section 5 - Quality Control Practices	Reference	Yes-No or NA	
5.1	Are duplicate determination results within 5% of their average?	(SM18)2540B,3.b (1992)		
5.2	Are reagent blanks analyzed a minimum of 5% of the sample load?	(SM18)1020B,4(1992)		
5.3	Are duplicates analyzed at least 5% or more of the samples?	(SM18)1020B,6(1992)		